

ABSTRACT OF THE DISCLOSURE

A nanowire including a core portion 12 made of a carbon nanotube having at least one layer of a graphene sheet 12a, 12b, and a functional layer 14 formed around the core portion 12 and having at least one layer of a modified graphene sheet in which a graphene sheet has been modified; a method for producing the nanowire; a nanonetwork using the nanowires; a method for producing the nanonetwork; a carbon structure using the nanowire; and an electronic device using the nanowire.